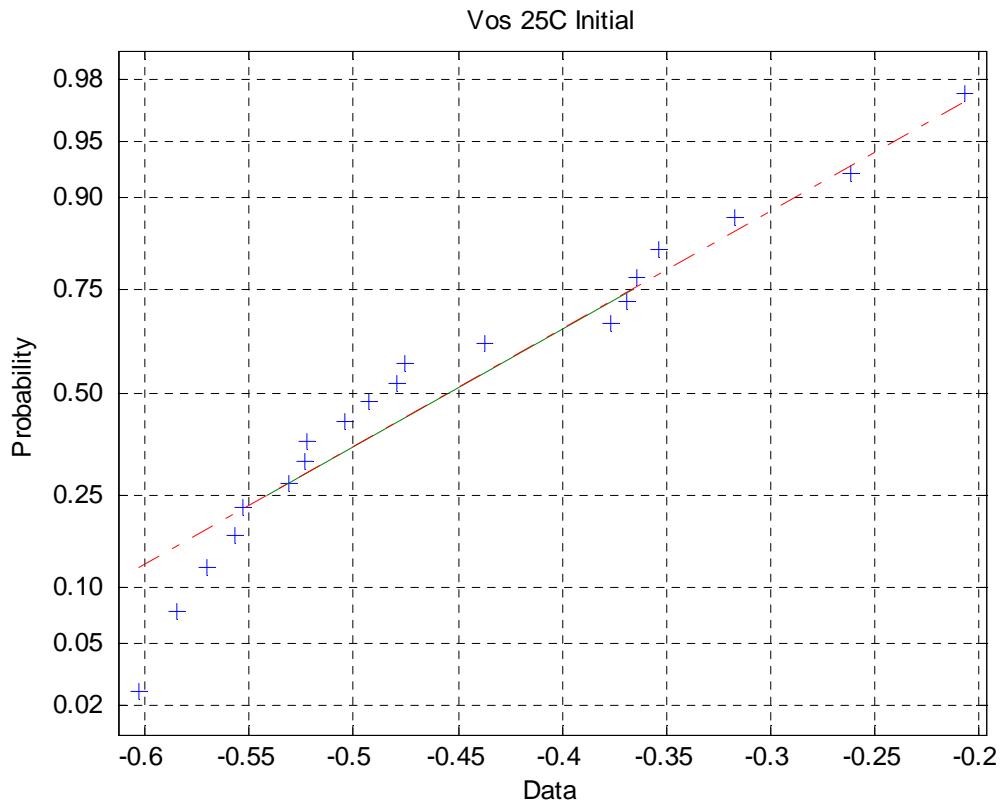


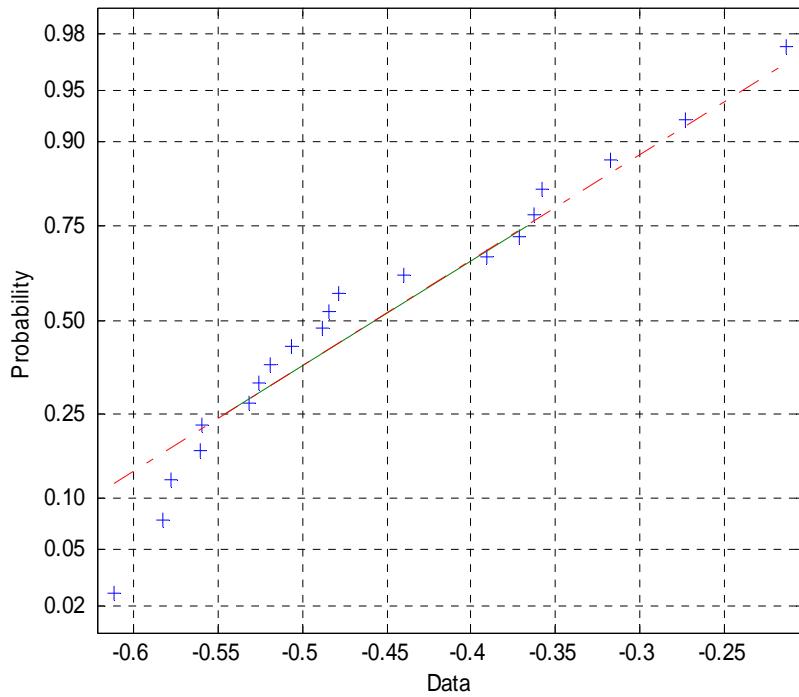
# AD8028 Life Test Data Analysis

10 pieces tested after burn-in (herein identified as initial measurements), after 500 hours life test, after 1000 hours life test. This is a dual device, and, where applicable, measurements on same parameter combined to increase sample size for statistical validity improvement. Measurements were taken at 25C, +110C, -40C.

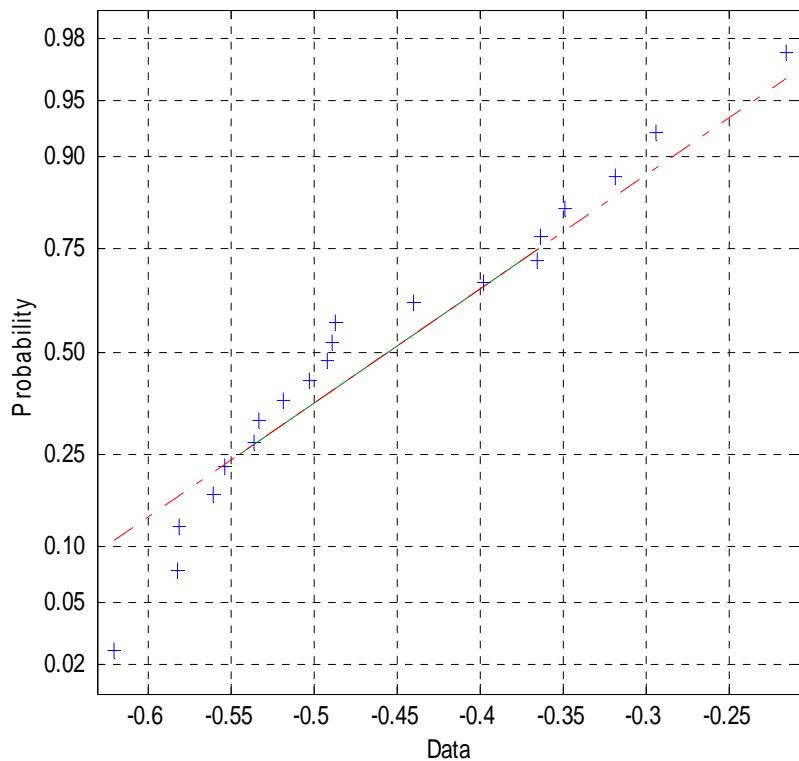
Input Voltage Offset at 25C



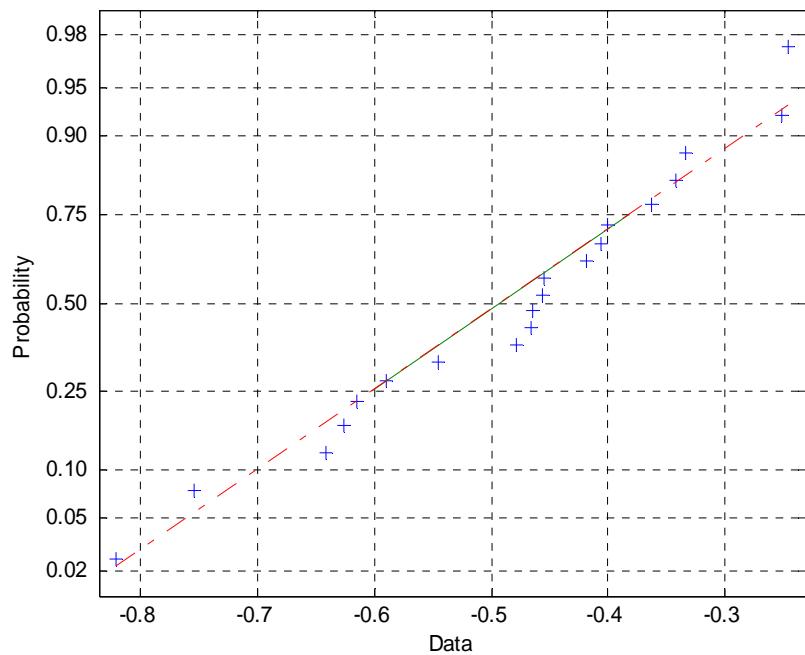
Vos 25C 500 hours



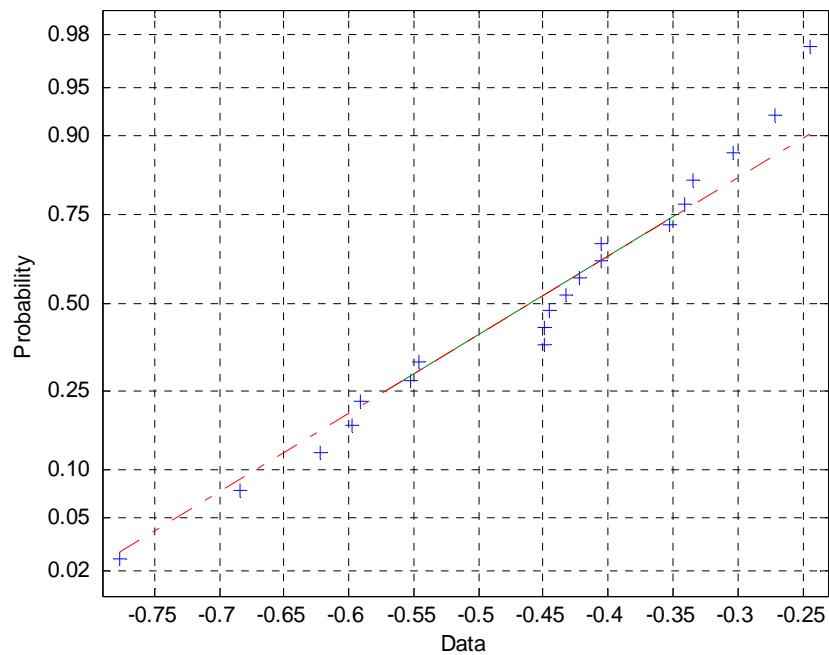
Vos 25C 1000 hours

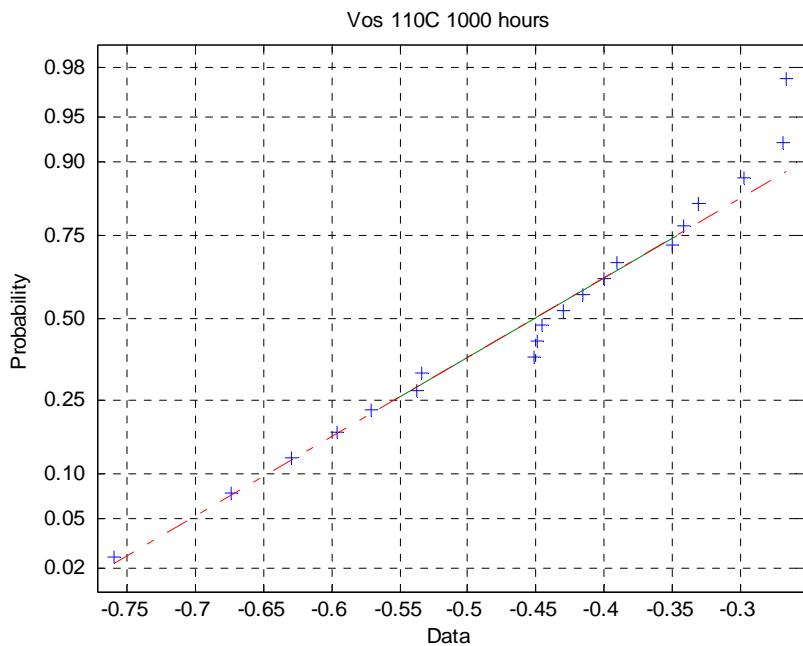


Vos 110C Initial

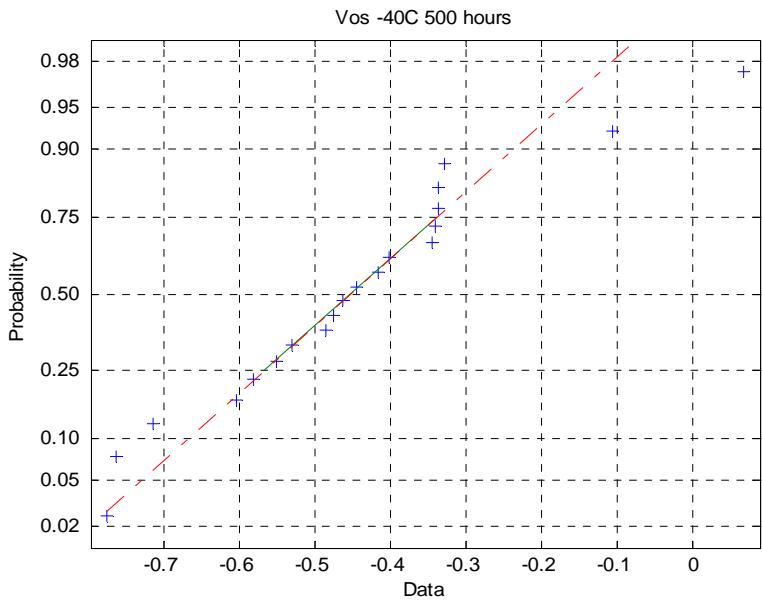
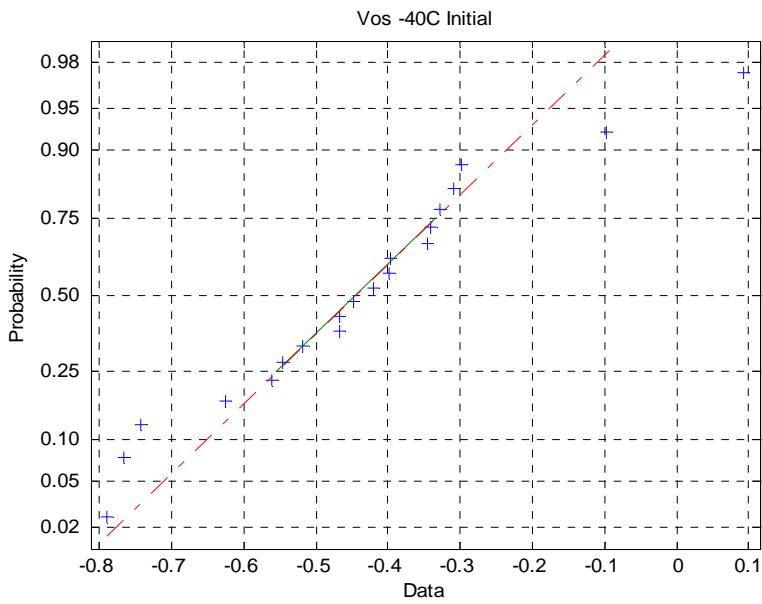


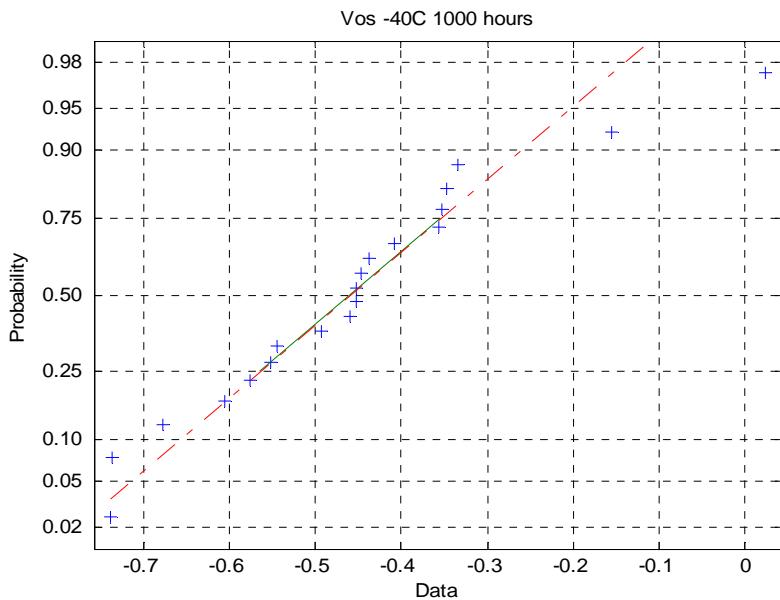
Vos 110C 500 hours





	Initial	500 hours	1000 hours
Average	-0.484	-0.461	-0.457
Standard Deviation	0.154073	0.142465	0.138103
Predicted Range	0.795017	0.73512	0.712613

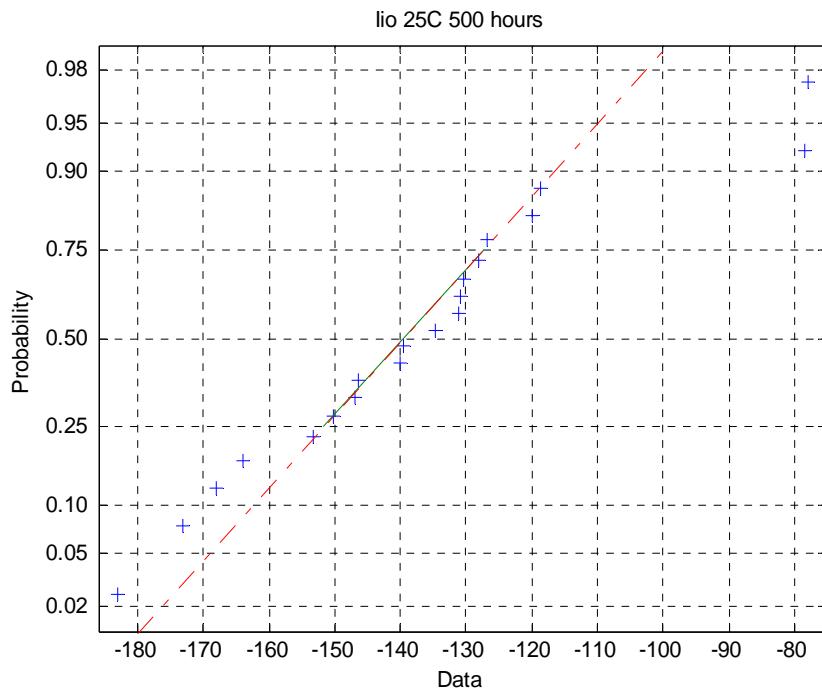
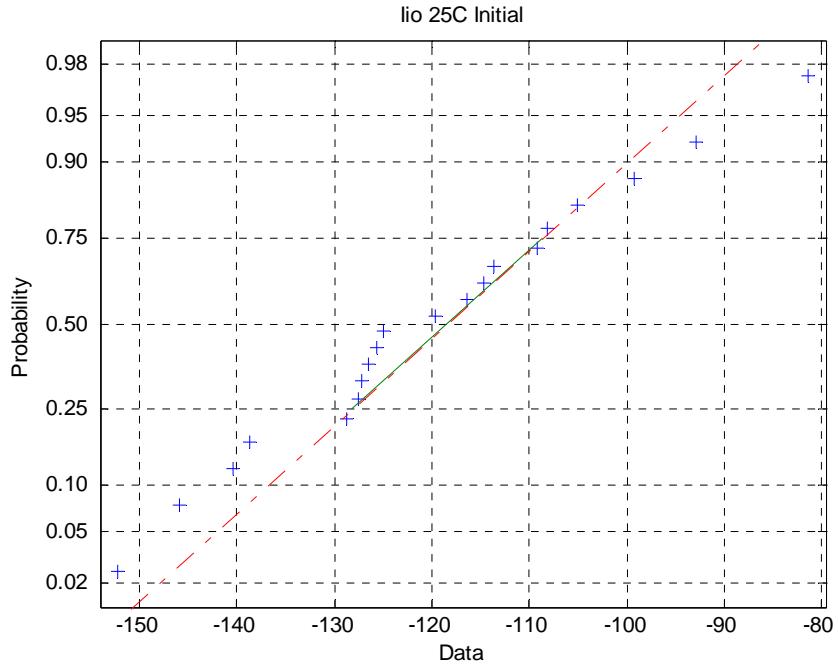




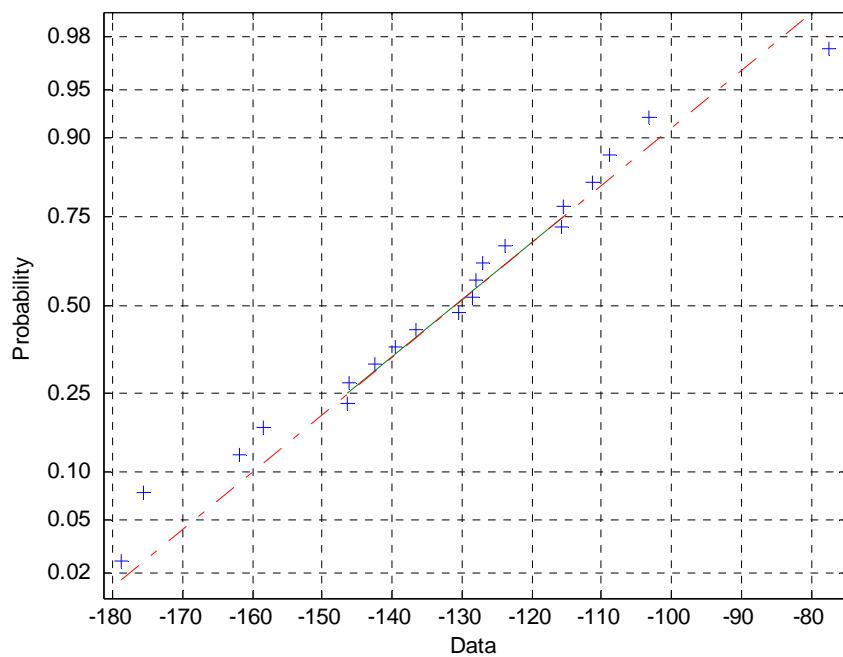
	Initial	500 hours	1000 hours
Average	-0.439	-0.447	-0.455
Standard Deviation	0.213082	0.203691	0.182669
Predicted Range (student t with 10 degrees of freedom)	1.429355	1.366356	1.225341

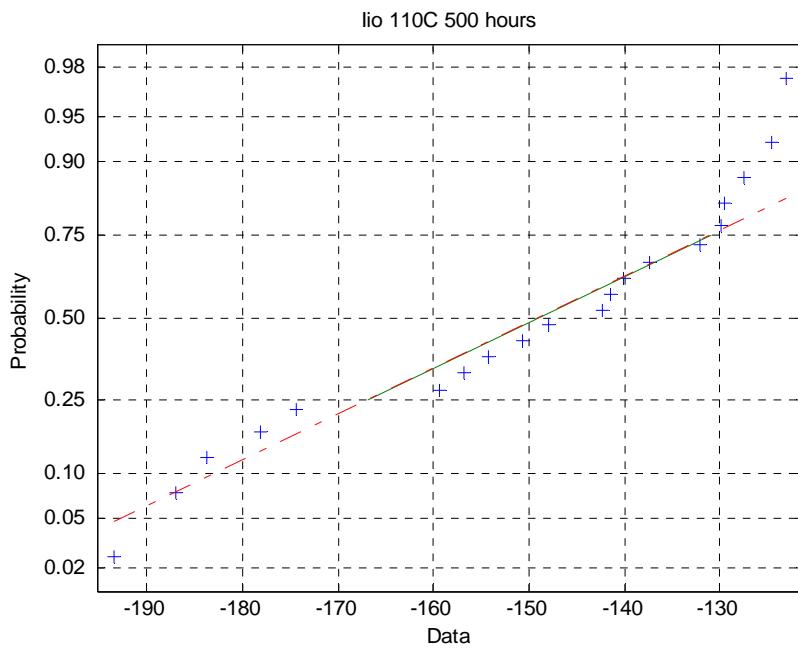
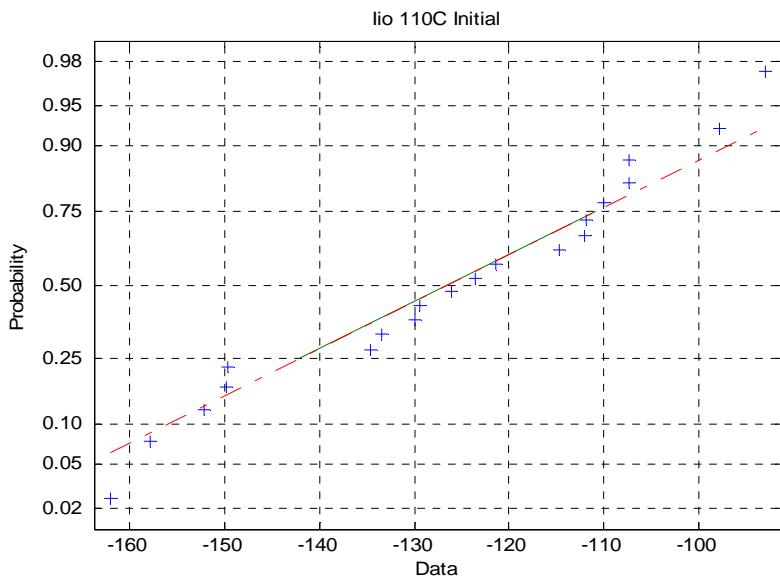
Note: Input Offset voltage specified at 25C as 0.8 millivolts max. No specification at temperature extremes.

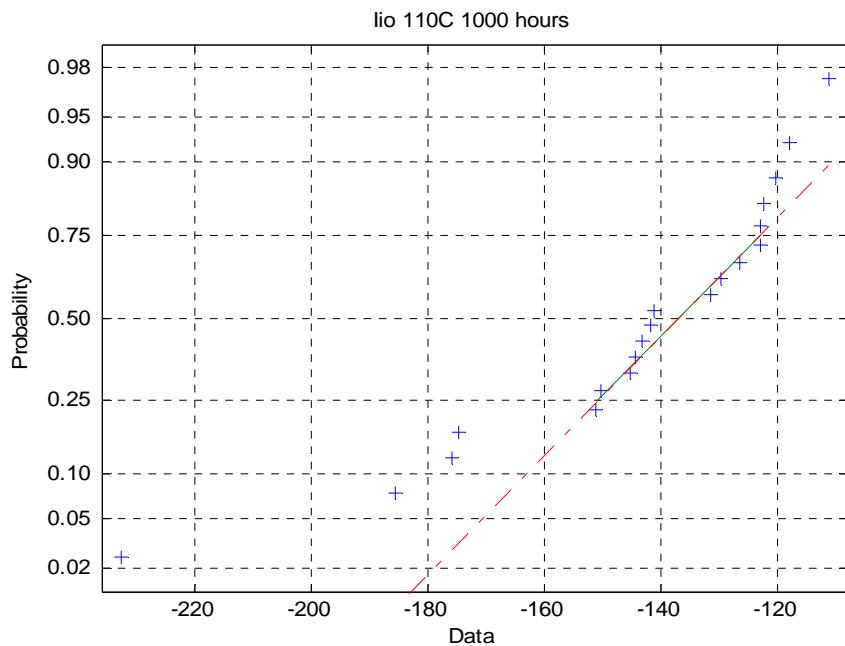
Measurements hardly changed at all during life test.



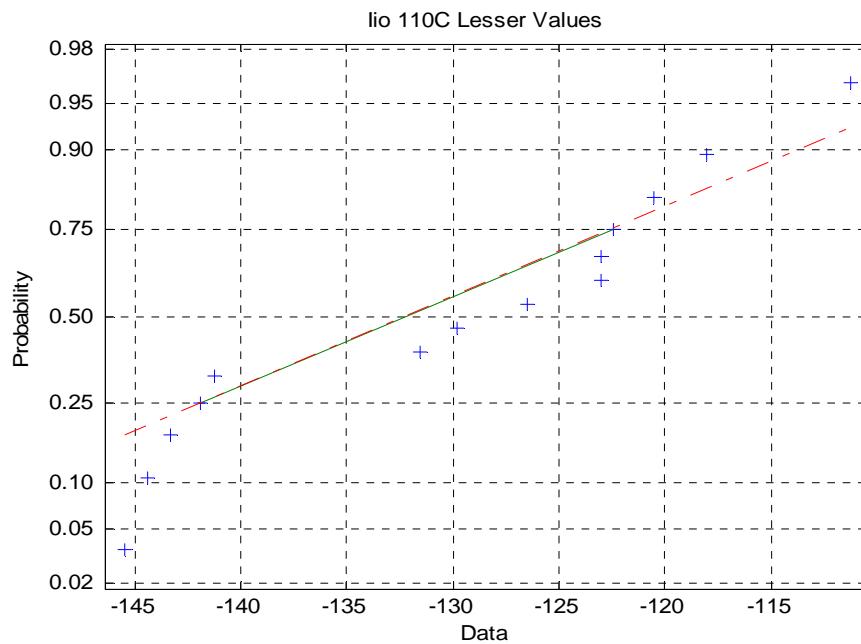
lio 25C 1000 hours

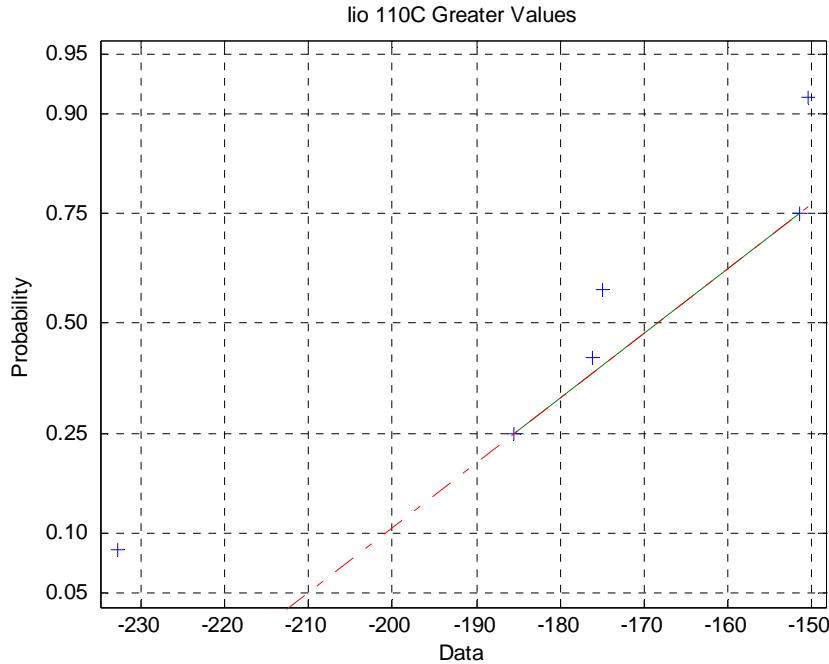






Bimodal analysis:





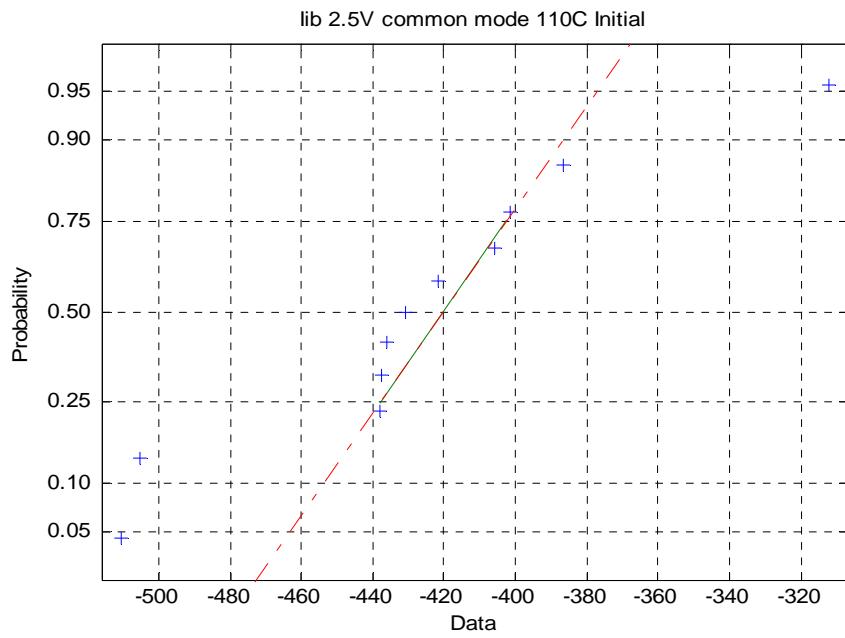
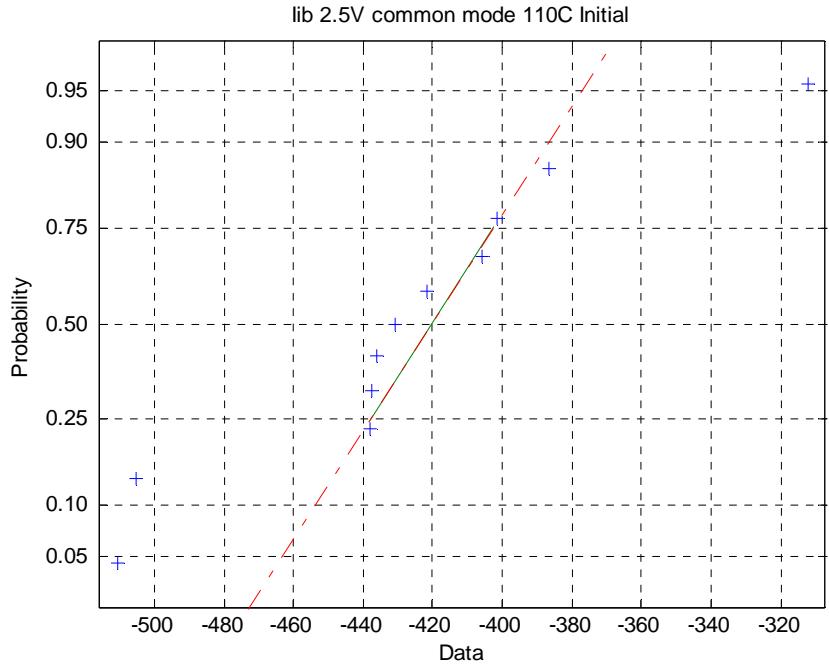
	1000 hours Lesser	1000 hours Greater
Average	-130.177	-178.543
Standard Deviation	11.26184	30.14427
Predicted Range	58.11109 1/	183.88 2/

1/ Normal distribution

2/ Student t distribution with 10 degrees of freedom

Total range predicted is 184 nanoamps.

Note: part manufacturer datasheet specifies +/- 900 nanoamps at 25C. No specification at temperature extrema.



lio 2.5V common mode 110C 1000 hours

